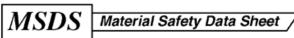
MSDS Number: C2046 * * * * * Effective Date: 11/21/08 * * * * * Supercedes: 01/13/06



Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

CHARCOAL ACTIVATED

1. Product Identification

Synonyms: Activated carbon; Charcoal, activated, powder; carbon black; Carboraffin; Carborafine

CAS No.: 7440-44-0 Molecular Weight: 12.01 Chemical Formula: C **Product Codes:**

J.T. Baker: 1560 Mallinckrodt: 4394

2. Composition/Information on Ingredients

Ingredient CAS No Percent Hazardous 7440-44-0 90 - 100% Steam Activated Carbon Yes

3. Hazards Identification

Emergency Overview

CAUTION! ACTIVATED CARBON AFFECTS THE RESPIRATORY AND CARDIOVASCULAR SYSTEMS.

SAF-T-DATA (tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects _____

Inhalation:

No adverse effects expected. May cause mild irritation to the respiratory tract.

No adverse effects expected. May cause mild irritation to the gastrointestinal tract.

Skin Contact:

Not expected to be a health hazard from skin exposure. May cause mild irritation and redness.

Eve Contact:

No adverse effects expected. May cause mild irritation, possible reddening.

Chronic Exposure:

Prolonged inhalation of excessive dust may produce pulmonary disorders.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact:

Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Wet activated carbon depletes oxygen from the air. Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide which may reach the lower explosive limit for carbon monoxide of 12.5% in air. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.140 g/l.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Warning! Spent product may have absorbed hazardous materials.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from moisture and oxidizers. Avoid dust dispersal.

Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered in confined spaces. Work procedures for potentially low oxygen areas should be followed. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Permissible Exposure Limits (PELs):

activated carbon (graphite, synthetic): total particulate = 15 mg/m3 (TWA), respirable fraction = 5 mg/m3 (TWA).

- ACGIH Threshold Limit Values (TLVs):

graphite, all forms except graphite fibers: 2 mg/m3 (TWA).

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Fine black powder.

Odor:

Odorless.

Solubility:

Insoluble in water.

Specific Gravity:

1.8 - 2.1

pH:

5.0-10.0

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

Sublimes.

Melting Point:

3550C (6422F)

Vapor Density (Air=1):

0.4

Vapor Pressure (mm Hg):

1 @ 3586C (6487F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Involvement in a fire causes formation of carbon dioxide and carbon monoxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.

Conditions to Avoid:

Moisture and incompatibles.

11. Toxicological Information

\Cancer Lists\					
	NTP Card	inogen	-		
Ingredient	Known	Anticipated		IARC Category	
Steam Activated Carbon ((7440-44-0)	No	Nc	Mone	

Investigated as a reproductive effector.

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

\Chemical Inventory Status - P Ingredient	TSCA E	EC Jap	an A					
Steam Activated Carbon (7440-44-0)				No	Yes			
\Chemical Inventory Status - Part 2\								
Ingredient	Canada Korea DSL NDSL Phil.							
Steam Activated Carbon (7440-44-0)				- No	Yes			
\Federal, State & International	0							
Ingredient RQ	302 TPQ	List (Chemi	cal Ca				
Steam Activated Carbon (7440-44-0)					No			
\Federal, State & International	Regulat							
Ingredient CEF	RCLA :	261.33	8(0	d)				
Steam Activated Carbon (7440-44-0)	No)	No	No				
hemical Weapons Convention: No ARA 311/312: Acute: Yes Chronic								

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

Reactivity: No (Pure / Solid)

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

Label Hazard Warning:

CAUTION! ACTIVATED CARBON AFFECTS THE RESPIRATORY AND CARDIOVASCULAR SYSTEMS.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Avoid breathing dust. Keep container closed.

Use with adequate ventilation. Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Product Use: Laboratory Reagent.

Revision Information:

No Changes. **Disclaimer:**

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